DIAMETER 3½" NOMINAL

90EG4P

Oscilloscope Tube

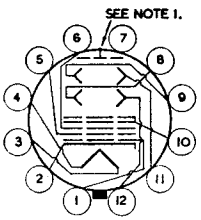
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

DATA

GENERAL:

Heater: Voltage	4.0	a.c. or d.c. volts.
Current	1.0	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes		25μμf.
Each X Plate to all other electrodes		25μμf.
Each Y Plate to all other electrodes		25μμf.
One X to one Y Deflector Plate		6μμf.
Cathode to all other electrodes		15μμf.
Screen :		
Fluorescence		Green.
Persistence		Short.
(10m sec. min./100m sec. max. for 1% initial brightness).		
Focusing Method		Electrostatic.
Deflecting Method		Electrostatic.
Overall Length		332 ± 8 mm.
Greatest Diameter of Bulb		92 mm.
Minimum Useful Screen Diameter		70 mm.
Mounting Position		Any.
Anode Cap		Recessed Small Ball.
Base		B.12.D.

Pin 1—Modulator.
Pin 2—Cathode.
Pin 3—Heater.
Pin 4—Heater.
Pin 5—Anode 1.
Pin 6—Anode 2.
Pin 7—No connection.



Pin 8—Y2.
Pin 9—X2.
Pin 10—Anode 3 and Internal Conductive coating.
Pin 11—X1.
Pin 12—Y1.
Cap—Anode 4 P.D.A.

Typical Operating Conditions:

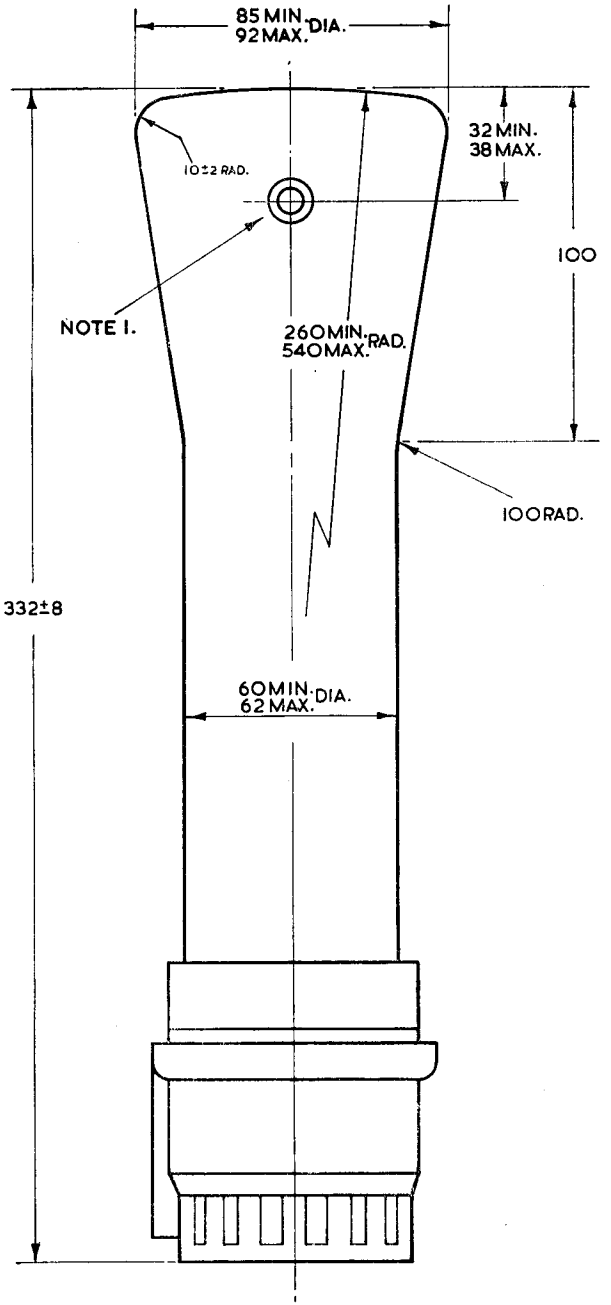
Anode 1	2000 volts.
Anode 2	380 volts.
Anode 3 (4000v. max.)	2000 volts.
Anode 4 Post Deflector Accelerator (6000v. max.)	4000 volts.
Modulator volts for cut-off	−40 to −80 volts.

Deflection Sensitivity:

	mm/volt.
X Plate	0.140
Y Plate	0.320

Note 2. The angle between the trace produced by X1 and X2 and the trace produced by Y1 and Y2 is 90° ± 3°.

Note 3. The undeflected focused spot will fall within a circle having a 6 mm. radius concentric with the centre of the tube face.



Note 1. When viewing the screen with the tube positioned such that the base spigot is uppermost, a positive voltage applied to the terminal X1 will deflect the spot to the left and a positive voltage applied to the terminal Y1 will deflect the spot upwards.